AMENDMENTS TO THE SPECIFICATION

IN THE SPECIFICATION

Amend the paragraph on page 15, line 1 as follows:

According to the process of the herein invention a sequence of four internal peptides and of the N-terminal were determined. The N-terminal portion contains 46 amino acids residues (DVVIDGACPDMKAVSKFDMNAYQGTWYEIKKFPVANEANGDCGSVE) (SEQ ID NO: 1) and the internal peptide fragments are:

- Fragment I (KSHVYTVPFGA) (SEQ ID NO: 2);
- Fragment II (KSNQHRVNIWILSRTK) (SEQ ID NO: 3)
- Fragment III (VRAGHVE) (SEQ ID NO: 4)
- Fragment IV (FDQSKFVETDFSEKACFF) (SEQ ID NO: 5).

The sequence obtained corresponds to about 15% of the whole protein and molecular mass of 69KDa.

Amend the paragraph beginning on page 15, line 28 as follows:

This invention is also related to the N-terminal sequence and the Sequence of internal fragments of the prothrombin activator fraction characterized by containing the N-terminal portion with 46 amino acids residues (DVVIDGACPDMKAVSKFDMNAYQGTWYEIKKFPVANEANGDCGSVE) (SEQ ID NO: 1). The fragments of internal peptides are Fragment I (KSHVYTVPFGA) (SEQ ID

NO: 2); Fragment II (KSNQHRVNIWILSRTK) (SEQ ID NO: 3); Fragment III (VRAGHVE) (SEQ ID NO: 4) and Fragment IV (FDQSKFVETDFSEKACFF) (SEQ ID NO: 5) resulting in a sequence that corresponds to about 15% of the whole protein and molecular mass of 69 Kda.

Amend the paragraph beginning on page 28, line 25 as follows:

The N-terminal portion with 46 residues of amino acids (DVVIDGACPDMKAVSKFDMNAYQGTWYEIKKFPVANEANGDCGSVE) (SEQ ID NO: 1) was obtained from purified Lopap, as well as the sequence of some internal peptides fragments called Fragments I: KSHVYTVPFGA(SEQ ID NO: 2). Fragment II: KSNQHRVNIWILSRTK(SEQ ID NO: 3) Fragment III: VRAGHVE (SEQ ID NO: 4) and Fragment IV: FDQSKFVETDFSEKACFF(SEQ ID NO: 5). The sequence that was obtained corresponded to about 15% of the whole protein considering 69 kDa its molecular mass.

Amend the paragraph beginning on page 30, line 21 as follows:

The kinetic parameters determined for Lopap using the quenched fluorogenic substrate Abz-QTFFNPRTFGSQ-EDDnp (SEQ ID NO: 6), based on the prothrombin sequence were K_{mapp} 4,5 μM; K_{cat} 5,32 $sec^{-1;}$ K_{cat}/K_{mapp} 1,2x106 M^{-1} sec^{-1}. This indicates good relation and high catalytic efficiency for the studied enzyme, being these parameters obtained in accordance with what was described by Chagas *et al*. Lopap has shown activity on the Abz-YQTFFNPRTFGSQ-EDDnp (SEQ

ID NO: 7)substrate (deduced from prothrombin molecule) which was hydrolyzed in two sites Phe-Phe (10%) and Arg-Thr (90%) (Fig. 3)

Amend the paragraph beginning on page 46, line 3 as follows:

A) Abz-YQTFFNPRTFGSQ-EDDnp (SEQ ID NO: 7) was incubated with Lopap in 50mM Tris-HCl buffer, pH 8,0 at 37°C for 3 h. The incubation mixture was analyzed through chromatography in HPLC as described in Manner and Process of making and using it.

B) The Michaelis-Menten profile obtained with 0.8 - 8.0 μM of fluorescent substrate hydrolysed by 73.3 pM of Lopap.

IN THE SEQUENCE LISTING

Please replace the Sequence Listing of record with the Substitute Sequence Listing enclosed herewith.